Name:

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Geometry, Period

Due Date: Mon, 3 Nov 2014

**Geometry**

**Homework**



Area & Perimeter of Rectangles & Triangles ~ *Review for Quiz on Monday!*

**I. Area & Perimeter Word Problems** (If a diagram is not given, **draw one!**)

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| --- | --- |
| 1a) A square garden has a side measuring 22ft. How much fence is needed to enclose the garden?  1b) If the garden is split in half diagonally to be used by two neighbors, what would the size of each triangular plot be? | 2) Find the perimeter and area of the figure. If necessary, round to the nearest tenth.  Perimeter: \_\_\_\_\_\_\_ Area: \_\_\_\_\_\_\_ |
| 3) A park wants to put a fence around their soccer field. The field is 75 yards long and 55 yards wide.  a. How many yards of fencing will they need for the field?  b. What is the area of the soccer field? | 4) An architect is installing a triangular window with the dimensions shown below. How big a window does he need to order, in feet squared?  https://tse2.mm.bing.net/th?id=HN.608054390343143290&pid=1.7  15in  12in  18in  4a) How much wood does he need to order to enclose the window on all sides? |

**II. Compound Figures**

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| --- | --- |
| 5) John wants to cover his 6ft by 8ft rectangular floor with tiles. In each of the four corners will be placed one patterned 2ft by 2ft tile. The remaining part of the floor is to be covered with solid white 1ft by 1ft tiles. How many of the solid white tiles will be needed to cover the remaining portion of the floor? | 6a) Using the same figure as in #5, John wants blue trim around the room. How much trim does he need?  6b) Additionally, he needs a special grout around the regular floor tiles (between the wall and the two types of tile). What is the length of the perimeter of the regular tiles? |
| 7) ABDE is a square with a side length of 9 units. If ED = DC, what is the area of the entire shape ABCE?  9  *A*  *E*  *D*    *C*  *B* | 8)      8b) What is  the area of  the polygon?  14ft |

**III. Proportions**

|  |  |
| --- | --- |
| 9) The perimeter of a rectangle is 36 inches. The length is twice the width. What is the length and width of the rectangle? | 10) The area of a rectangle is 8 inches. The length of the rectangle is half as long as its width. Find the length and width of the rectangle. |
| 11) | 12) |

**IV. Expressions with Area & Perimeter**

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| 13) What is the area of the rectangle below? | 14) What is the area of the rectangle below? |

**V. Complex Figures**

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| 15) Jose wants to redecorate his room. On one wall he wants to put up new wallpaper. The wall is a 13-by-11 foot rectangle and has a door which takes up a 7-by-3-foot rectangular area. After the area of the door is subtracted, how many square feet of wall remain to be covered? | 16. Find the area of the shaded region. |
| 17) To promote recycling, the ground of the neighborhood playground is being covered by shredded tires. The sandbox will not be covered. What is the area, in square feet, of the shredded tire portion of the playground? | 18) The page of a book measures 8 inches by 6 inches. There is one inch of white space around the text in every direction. How many square inches of text are on each page? |

***Bonus: English 1 Review!*** *What is the difference between a compound & a complex sentence? How does this terminology relate to compound & complex figures?*